

SOLAR DIVISION BULLETIN.

Neal J. Heines, Editor.

August & September 1950.
Number 56; Page 142.

560 Broadway.
Paterson 4, New Jersey

This bulletin covers August and September, the next issue will be that for October, issued in September.

We are pleased to inform you that Mr. Gordon Newkirk, one of our early solar observers and winner of a scholarship given by the Westinghouse; Science Search For Talent, was graduated from Harvard University, Cum Laude. His life work is to be astronomy, presently, he is to go to the University of Michigan for graduate work and has been given a research assistantship at the observatory there. Our congratulations and best wishes to him for the future.

Prof. W. Gleissberg, Director of the University Observatory at Bayazyt, Istanbul, Turkey, who instigated our Foreshortening Project, has sent to us a resume of what is to be expected concerning solar activity during the next sunspot minimum period. He writes, "It is to be expected with a probability of 19 - 1, that solar activity at the coming minimum will be stronger than that of all minimum since 1843."

We received an interesting communication from Dr. James C. Bartlett who heads our Solar Granulations and Color in Sunspots Project in which he stated, "You may be interested to know that so far the granulation curve continues to be sensitive to changes in solar activity as manifested by spot activity. There was a sudden upswing of granular activity in March, as determined from the observations of eight observers, which appears to have been foreshadowed by the notable spot activity in April. Granular activity has been high throughout April and May 1950." Dr. Bartlett also received a number of reports of color observations in the major group of the southern hemisphere, visible during the period between June 8-18, 1950.

We would welcome additional observers in this interesting and worthwhile project. Write Dr. James C. Bartlett, 300 N. Eutaw Street, Baltimore 1, Maryland.

While on the subject of projects it might not be amiss at this time to mention the project headed by Dr. Walter Orr Roberst, of Unusual Activity and Color in Sunspots. It is possible to correlate certain activities of sunspots with some phenomenon in the corona of the sun as has been proven by the comparison of some of the reports containing unusual activity items. The paucity of reports, however, prohibit complete substantiation. We realize that this project consumes more time but the ultimate results have great possibilities and we invite your indulgence. Please write this office for additional information.

We regret the resignation of Mr. Roy A. Seely as Vice Chairman of the Solar Division directly in charge of summarizing the monthly Aurora reports. Mr. Seely is moving out of this area and will be unable to carry on. Mr. Donald S. Kimball of Yale University will now have charge of the summary. Beginning September 1st., kindly submit the aurora reports to Mr. Kimball at, Yale University, Prospect and Canner Streets New Haven, Conn. We wish Mr. Seely much happiness in his new location.

At this writing (July 16th.,1950.) A.A.V.S.O. FUND receipts have started to come in. It is,indeed, too early to make any statement other than that if like amounts are received as those that have been recorded that there is a possibility that we will reach our goal. We are garteful to you all. We will have more details in our October Bulletin. Of course many are away from their instiutions, during the summer vacation period, which will delay the progress to a certain extent but we are fully confident of their returns. Being away, they are not aware of the campaign or the enjoyment we are experiencing in the giving and receiving,however, their joy is to come.

STATISTICS.

The total number of observed groups for the month of June was----- 33.
 The total number of days with sunspots for the month of June was-- 30.
 Zurich's Provisional Relative Sunspot Number for June was----- 83.2.
 Mean (monthly) Sunspot Area(U.S.Naval Observatory)for January was 1560.
 " " " " " " February " 2173.
 " " " " " " March " 1839.
 " " " " " " April " 2460.

* The highest sunspot group number as assigned at Solar Division Headquarters was observed on July 15th., It represented a spot on the very edge of the east limb in the southern hemisphere.

* Group counting reference for observers, and also represents the total number of observed groups to that date for the current year.

Errata.

Bulletin No.54, June,1950, p.138, under statistics, line 3, please delete March and enter April.

Predictions of the smoothed monthly sunspot numbers for the coming six months are as follows;

July	92	Oct.	84
Aug.	89	Nov.	81
Sept.	86	Dec.	78.

Broadcast by the Swiss Broadcasting Corporation.
 Released by Prof. M.Waldmeier.
 Director Swiss Federal Observatory,
 Zurich, Switzerland.

PUBLICATIONS.

Spring Meeting of the AAVSO. ----- M.Mayall,Recorder.
 Popular Astronomy. June 1950. p. 305
 AAVSO Meets at Penn State College. ----- C.B.Ford. Sec.
 Sky and Telescope July 1950 p.219.

Publications Continued.

Some Notes on the Astronomical Method of Studying Bird Migration.

By William A. Rense.

POPULAR ASTRONOMY. June 1950, p.287.

Useful information to solar observers who see migratory birds passing over the solar disc.

" On Limiting Magnitudes Of Various Telescopes "----- H. Leinbach.
Astronomical Information Sheets, Mailing #110, p. 379.

Mr. Leinbach is one of our good observers and has just received his masters degree at the California Institute of Technology. Our best wishes to him for the future. The information given by Mr. Leinbach is useful to all telescope users. Mr. Leinbach invites participation in this study. Write him at, 929 10th., Street, Brookings, S.D.

Sunspots Observed Photographically ----- V.W. Killick.
Sky and Telescope July 1950, p.229.

Instruments. ----- D.W. Rosebrough.
Same issue as above p. 226-227.
Read description of instrument used and accessories.

Final Relative Sunspot-Numbers For 1949. ----- Prof. M. Waldmeier.
Journal Of Geophysical Research Vol.55, No.2, pp.211-213.
Daily values, Monthly Mean, the Year's mean.

DATE	TIME USED EST	FORM BRIGHTNESS & COLOR									ELEVATION & DIRECTION			STATION
		1			2			3						
	Time of OBSERVATION	G	HA HB	AA AB	R	D	C	PA PS	F	DS	1	2	3	
5/2	23:50 23:55				G									WILTON MAINE
5/14	03:35 05:15	G												"
5/27	19:00 20:00				W									"
5/27	21:45 22:30	GI			G I						N	N		SPRINGFIELD MASS.
6/5	22:40 23:31	GI									N 59°			N NW 8 mi from Litch Rock County
"	23:31 23:32					G III					N 59°			MASSENA N.Y.
"	23:32 23:33									G I	N 59°	N 59°		"
"	23:33 23:33.5				G III						N 59°			"
"	23:33.5 23:46									G I	N 59°	N 59°		"
"	23:46 25:41									G I	N 56°	N 56°		"

REPORTS from C. Fernald, Margaret Beardsley, D.W. Rosebrough.
Hazel RIVKELLS of Massena N.Y. reported the June 5th display to have been sudden flashing with no horizontal motion.

Roy A. Seely
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PLEASANT VACATIONS.